	Application No.	Applicant(s)	
A	10/698,690	CONN	
Notice of Allowability	Examiner	Art Unit	
	Carmelo Oliva	2831	
The MAILING DATE of this communication apperation allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course. <b>THIS</b>
1. This communication is responsive to			
2. X The allowed claim(s) is/are 1-21.			
3. $\boxtimes$ The drawings filed on <u>31 October 2003</u> are accepted by the	e Examiner.		
<ul> <li>4. Acknowledgment is made of a claim for foreign priority un</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> </ul>	been received. been received in Application No		
3. Copies of the certified copies of the priority doc	cuments have been received in this r	national stage applica	tion from the
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	ENT of this application.		
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>			OTICE OF
6. CORRECTED DRAWINGS ( as "replacement sheets") must	t be submitted.		
(a) including changes required by the Notice of Draftspers	- · · · · · · · · · · · · · · · · · · ·	948) attached	
1) hereto or 2) to Paper No./Mail Date			
<ul><li>(b) including changes required by the attached Examiner's Paper No./Mail Date</li></ul>	Amendment / Comment or in the O	ffice action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the			back) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F</li> </ol>			Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal Pa	atent Application (PT0	O-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary		
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08  Paper No./Mail Date 10/31/03 & 8/30/04	_	nent/Comment	
<ol> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol>	<ol> <li>8. ⊠ Examiner's Statement</li> <li>9. ☐ Other</li> </ol>	nt of Reasons for Allo	wance
of Diological Material	a. Other		

## **NOTICE OF ALLOWABILITY**

## Reasons for Allowance

1. Claims 1-21 are allowed.

2. The following is an examiner's statement of reasons for allowance:

Claims 1-18 are allowable because the prior art alone or in combination does not teach or fairly suggest an assembly comprising an integrated circuit die, a package, and a capacitive interposer (caposer), the caposer having first and second conductive layers/bypass capacitor and a through-hole, wherein the signal conductor of the integrated circuit die is coupled to the landing pad through the through-hole without being coupled to the first or second conductive layer/plates of the bypass capacitor, taken in combination with the other claimed features.

Claims 19 and 20 are allowable because the prior art alone or in combination does not teach or fairly suggest a structure comprising an integrated circuit die with a signal conductor and a package housing the integrated circuit die, the structure having means for supplying a bypass capacitor within the package such that the signal conductor is coupled to the landing pad without being coupled to the bypass capacitor, taken in combination with the other claimed features.

Claim 21 is allowable because the prior art alone or in combination does not teach or fairly suggest a structure having a rectangular tile shape comprising first and second conductive plates with a dielectric layer therebetween, through holes extend through the first and second conductive plate and the dielectric layer, wherein neither

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the first nor second conductive plate extends to the inside surface of at least one of the through-holes, the structure being less than 100 microns thick, taken in combination with the other claimed features.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Closing

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Parker et al., Gilliland et al., Chakravorty et al., and Ho et al. all show packages having interposers.
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carmelo Oliva whose telephone number is (571)272-1982. The examiner can normally be reached flexible hours on Monday through Friday with every other Wednesday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard, can be reached at (571)272-2800 ext. 31. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800